

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2372	{(362/800).CCLS.	US-PPG PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 16:27
S2	5017	{holes with machin\$4 with punch\$4}	US-PPG PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 16:43
S3	0	{epoxy with coat\$4 with inject\$4) and (holes with machin\$4 with punch\$4)	US-PPG PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 16:44
S4	5	{resin with coat\$4 with inject\$4) and (holes with machin\$4 with punch\$4)	US-POP PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 16:44
S5	1205	{holes with (machined machining) with punch\$4}	US-PPG PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 16:49
S6	75	{holes with (machined machining) with punch\$4) and diode	US-PPG PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 16:52
S7	26	{(epoxy with coat\$4 with inject\$4) and diode and LED	US-PPG PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 17:07
S8	2	{(LED near2 bulb).ab. and {(light adj guid\$4) with (fiber)}	US-PPG PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 17:39
S9	123	{(LED near2 bulb) and {(light adj guid\$4) with (fiber)}	US-POP PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 17:39
S10	0	10/899,546	US-POP PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:18
S11	7	10/899,546	US-POP PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:19
S12	10	{"20020176260"   "4274127"   "4529193"   "6955441"   "7020369").PN.	US-PPG PUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:21

S13	17675	((light adj guid\$4) with (fiber)) (fiber with (((internal external) near3 diffuser) TIR))	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:33
S14	100	((light adj guid\$4) with (fiber)) and (fiber with (((internal external) near3 diffuser) TIR))	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:33
S15	448	((LED and (slug with (heat))))	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:35
S16	281	((LED and (slug with (heat))) and (heat adj sink))	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:38
S17	234	((LED and (slug with (heat))) and (heat adj sink) and diode)	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:40
S18	19	((LED and (slug with (heat))) and (heat adj sink) and diode and (index adj matching))	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:42
S19	1	LED and (platform with (FR4 (metal adj clad) OEM-1)) and diode	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:50
S20	227	LED same (FR4 (metal adj clad) OEM-1) and diode	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:50
S21	155	LED same (FR4 (metal adj clad) OEM-1) and diode and (printed adj circuit adj board)	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:51
S23	37	LED same (FR4 (metal adj clad) OEM-1) and diode and (printed adj circuit adj board) and (AC with DC with convert\$4)	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/13 18:51
S24	90	LED same bulb and (conversion adj circuit)	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/15 20:54
S25	2	"20050207177"	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/16 19:27
S26	60	LED same (FR4 (metal adj clad) OEM-1) and diode and (printed adj circuit adj board) and (AC with DC)	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/16 19:40
S27	1837	((index adj matching adj fluid))	US-PPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/16 21:11

S28	289	(index adj matching adj fluid) and LED and diode	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/17 06:58
S29	46	(index adj matching adj fluid) and LED and diode and bulb	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/17 07:00
S30	14	"6586882"	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/17 07:35
S31	1	(light adj bulb).ab. and (diffuse adj coating)	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/17 07:37
S32	15	(light adj bulb).ab. and (light adj bulb) and (diffus\$4 near2 coating)	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/17 07:38
S33	42	(LED diode).ab. and ((light adj guid\$4) with ((reflect\$4 near3 metal))	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/17 07:48
S34	42	(LED diode).ab. and ((light adj guid\$4) with (reflect\$4 near3 metal))	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/17 07:48
S35	36	(light adj bulb).ab. and (fins with heat)	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/17 08:09
S36	418	(LED).ab. and (AC with DC with converter)	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/17 08:17
S37	2	"20050207177"	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/17 12:34
S38	0	"7602559" and "7499228"	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/17 18:42
S39	12	"7602559" or "7499228"	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/17 18:42
S40	1114	(359/642).OCLS.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/17 18:45
S41	19	"6586882"	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 17:20

S42	:2	2003/0076051	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 17:26
S43	:2	"20030076051"	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 17:26
S44	:0	{362/240.01}.OCLS.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 17:37
S45	:1300	{362/249.01}.OCLS.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 17:37
S46	:270	{362/249.02}.OCLS	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 17:37
S47	:435	{362/249.06}.OCLS.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 17:37
S48	:1947	{S45 S46 S47}	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 17:38
S51	:388	{S45 S46 S47} and LED and bulb	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 17:39
S52	:7	{"4965488"   "5707139"   "5929788"   "6149283"   "6183100"   "6464373"   "7011430"},PN, OR ("7347586"),URRN.	US-PPGUB; USPAT; USOOR	OR	OFF	2009/12/20 17:44
S53	:754	{362/227}.OCLS.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 18:00
S54	:254	{362/228}.OCLS.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 18:00
S55	:222	{362/230}.OCLS.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 18:01
S56	:1438	{362/231}.OCLS.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 18:01
S57	:2512	{S53 S54 S55 S56}	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/12/20 18:02

S58	488	\$57 and LED and bulb not \$51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 18:02
S59	1	:2008/0137360	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 20:53
S60	7	{"20020163797"   "20080137360"   "20090034251"   "5828803"   "6030108"   "6563967"   "6742908").PN. OR ("7618175").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 20:53
S61	10	{"5345531"   "6234645"   "6337946"   "6586882"   "6974777"   "6450041"   "6586882"   "6767111"   "7160012"   "7258476"   "7455444").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:10
S62	15	{"20010048603"   "5581683"   "6481882"   "6497496"   "6874924").PN. OR ("7160012").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:12
S63	41	"6104454"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:40
S64	2	"20040042233"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:41
S65	17	"6905220"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:41
S66	10	{"5345531"   "6234645"   "6337946"   "6586882"   "6974777"   "6450041"   "6586882"   "6767111"   "7160012"   "7258476"   "7455444").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:46
S67	2	:2004/0046510	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:46
S68	1	"20040046510"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:46
S69	9	"5,984,496"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:47
S70	66	"6,356,700"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/20 21:49
S71	102	:362/??? and bulb and slug	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 22:25
S72	581	:362/??? and bulb and LED and ((PCB circuit) with (metal FR4 OEM-1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 22:55
S73	15	:362/??? and bulb and LED and ((PCB circuit) with (metal FR4 OEM-1)) and ((light adj guid\$4) with (optic\$4 with fiber))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 22:56

S74	19	:362/??? and bulb and LED and ((reflec\$4) with (metal)) and (((light adj guid\$4) with (optic\$4 with fiber)))	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 23:06
S75	721	:362/??? and bulb and LED and ((reflec\$4) with (metal))	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 23:09
S76	8	:362/??? and bulb and LED and (optic\$4 with fiber with TIR)	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/20 23:31
S77	1	"10555721"	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 14:29
S78	0	:362/227,362/228,362/230,362/231,362/234,362/235,362/240,362/249.01,362/249.02,362/249.06,362/363	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 15:02
S79	0	:362/227,362/228,362/230,362/231,362/234,362/235,362/240,362/249.01,362/249.02,362/249.06,362/363	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 15:02
S80	0	:362/227362/228,362/230,362/231,362/234,362/235,362/240,362/249.01,362/249.02,362/249.06,362/363	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 15:02
S81	9698	:362/227 362/228 362/230 362/231 362/235 362/240 362/249.01 362/249.02 362/249.06 362/363	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 15:02
S82	1	"10555721"	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 15:16
S83	41	"6102559"	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 15:22
S84	27	{"2748306"   "3593055"   "3932881"   "4904901"   "5535230"   "5813753"   "5847507"   "6068383"   "6234648"}, PN, OR {"6586882"}, USCR	US-POPUB; USPAT; USCR	OR	OFF	2010/06/25 15:56
S85	89	"6234648"	US-POPUB; USPAT; USCR	OR	OFF	2010/06/25 16:55
S86	89	"6,234,648"	US-POPUB; USPAT; USCR	OR	OFF	2010/06/25 16:56
S87	1	:09/406284	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 16:56
S88	40	:(edison).inv. and glass	US-POPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 17:00

S89	1	:{edison}.inv. and glass and bulb	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/06/25 17:01
S90	4	:{edison}.inv. and glass and bulb	USPAT; USOGR; FPRS; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2010/06/25 17:01
S91	21	:{edison}.inv. and glass and light\$4	USPAT; USOGR; FPRS; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2010/06/25 17:02
S92	22	:{edison}.inv. and glass and light\$4	USPAT; USOGR; FPRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2010/06/25 17:02
S93	166	:{LED and bulb}.ab. and fan	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/06/25 17:27
S94	28	:("2748306"   "3593055"   "3932881"   "4904901"   "5535230"   "5813753"   "5847507"   "6068383"   "6234648").PN. OR ("6586882").URPN.	US-PPGUB; USPAT; USOGR	OR	OFF	2011/04/18 12:54
S95	16	:("5325386"   "5535230"   "5707139").PN. OR ("5758951").URPN.	US-PPGUB; USPAT; USOGR	OR	OFF	2011/04/18 12:55
S96	16	:("5325386"   "5535230"   "5707139").PN. OR ("5758951").URPN.	US-PPGUB; USPAT	OR	OFF	2011/04/18 12:56
S97	13	:("7111972"   "6586882"   "5345531"   "6337946"   "5428515"   "7455444"   "6234645"   "7160012"   "6404973"   "6450041"   "6586882"   "6767111"   "6974777"   "7258476").PN.	US-PPGUB; USPAT	OR	OFF	2011/04/18 12:59
S98	16	:("5758951")	US-PPGUB; USPAT	OR	OFF	2011/04/18 13:09
S99	38	:("7093958")	US-PPGUB; USPAT	OR	OFF	2011/04/21 10:22
S100	2	:("20090027989")	US-PPGUB; USPAT	OR	OFF	2011/04/21 10:23
S101	28	:("5663130"   "6030930"   "6255670"   "6686676"   "5498809"   "6255670"   "6066861"   "6255027"   "6156468"   "20070091437"   "5498809"   "5663130"   "6252254"   "20060291238"   "20070053208"   "5955837"   "6066861"   "6156468"   "6252254"   "6255027"   "5660961"   "5660961"   "6030930"   "7559664").PN.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/04/21 19:29
S102	29	:("7144135")	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/04/21 19:31
S103	21	:("20050174780"   "20060092640"   "20070242461"   "20070297178"   "4687963"   "6220722"   "6607288"   "6634770"   "6992333"   "7144135").PN.	US-PPGUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/04/21 19:34
S104	36	:("2933596"   "4321659"   "4630182"   "5806965"   "6220722"   "6227686"   "6367949"   "6609804"   "6621239"   "6635999"   "6676283"   "6719558"   "6746885"   "6793374"   "6954270"   "6955440").PN. OR ("7144135").URPN.	US-PPGUB; USPAT; USOGR	OR	OFF	2011/04/21 19:38

S105	18	{"20050174780"   "20080316755"   "20090040759"   "20090073688"   "20090244896"   "20090262530"   "4271408"   "6448900"   "6561690"   "6682211"   "7048412"   "7144135"   "7242028"   "7440280"   "7568817"   "7593229"   "7651253").PN. OR ("7874700"). USPCPUB; USPAT; USOCR	OR	OFF	2011/04/21 19:39
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**EAST Search History (Interference)**

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